

Ref. T2/4.07

SIMULATORS AVAILABLE FOR USE IN MARITIME TRAINING

1 The Maritime Safety Committee, at its sixty-third session (16 to 25 May 1994), instructed the Secretariat to compile, from the replies received in response to MSC/Circ.567/Rev.1, a list of maritime training institutions equipped with simulators, to provide a source of information on availability of such training for use by administrations, shipowners and others. The first list has been circulated as MSC/Circ.633.

2 The information contained at annex is additional to the one circulated by MSC/Circ.633 in respect of Australia and the United Kingdom while the entries for Poland and Fremantle (Australia) correct the ones in MSC/Circ.633.

3 Member Governments are invited to bring this circular, and the information annexed hereto, to the attention of all concerned.

BRIDGE FACILITIES

Country Location	Type	Date of Manufacture	No.	Description	No. of Lecturers	No. of Students	Visual System	Field of View	Sound	Engine Vibration	No. of Own Ships	No. of Targets	NAVAIDS	Comm. Equipment	How Built	Cost to Students
AUSTRALIA																
Queensland Transport Maritime Division GPO Box 2595 Brisbane QLD 4001 Tel: +61 7 224 2832 Fax: +61 7 221 7179 Contact: Capt. Sean O'Mahony	Bridge simulator	1988	1	Mardyn Port design and ship operations simulator	1	3	Day Night	150°H 30°V	No	No	One (five ship types, five Queensland ports)	Six	Radar	No	Commercially	On application
South Metropolitan College of TAFE 41 South Terrace Fremantle Western Australia 6160 Tel: +61 9 430 6123 Fax: +61 9 336 8241 Contact: Capt. R. Gray	RADAR	1992	1	Instructor station + 2 student stns. (own ships)	1	4	Day Night	-	-	-	Two	Twenty	Radar	Two way voice comms	Commercially	On request (variable)
POLAND																
Maritime University 70-500 Szczecin Waly Chrobrego 1 Tel: 48 91 34 42 26 Fax: 48 91 33 81 23 Telex: 0422585 WSM PL Contact: Jan Glebicki	QR-303	1991	-	Instructor's station + 6 bridge (own ships)	2	12	None	-	-	-	6	44	-	-	Commercially	\$400
Merchant Marine Academy Gdynia U/Morska 81/87 Tel: 217041 Fax: 206759 Telex: 054568 WSM PL Contact: Wojciech Galecki	QR-303	1991	-	Instructor's station + 6 Bridge (own ships)	2	12	None	-	-	-	6	44	-	-		

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United Kingdom																
Aberdeen College Gallowgate Aberdeen AB9 1DN Tel: 01224 640366 Fax: 01224 647178 Contact: Ian Giddings	Racal Decca MRNS 9000	1983	1	Radar Navigation	2	9	No	No	No	No	3	48	Radar Decca Omega Loran Satnav MF-DF	VHF	Commercially	N/A
Banff and Buchan College of FE Henderson Road Fraserburgh Tel: 01346 515777 Fax: 01346 515370 Contact: Jim Simpson		1990	1	Radar	1 - 2	12	-	-	-	-	-	-	-	-	-	£350
Fleetwood Nautical Campus Broadwater Fleetwood Lancashire FY7 8JZ Tel: 01253 352352 Fax: 01253 773014 Telex: 677348 SURVIV G Contact: John F. Hayes	Norcontrol	1980	1	Radar	1	8 - 12	No	-	-	-	4	40	Radar Decca GPS MF/DF	VHF	Commercially	Various
Glasgow College of Nautical Studies 21 Thistle Street Glasgow G5 9XB Tel: 0141 429 3201 Fax: 0141 429 1690 Contact: Malcolm Linklater	Racal Decca	1982	1	Full mission ship's bridge	1	3	Night	Horiz; 100	yes	yes	1	4	Radar ARPA Decca	VHF	Commercially	£841
	Norcontrol Navsim4	1982	1	Radar/ARPA/ Navigation	1	6	-	-	-	-	-	-	-	-	-	ARPA £146 NCC: £361

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Sir John Moore's University Byrom Street Liverpool L3 3AF Tel: 0151 2312368 Contact: Mr. T. Ruxton	Solartron SY 2086	1982	1	Radar/ Nav systems	19	-	-	-	-	-	-	-	-	-	-	-
Lowestoft College St. Peters Street Lowestoft Suffolk NR32 4DS Tel: 01502 525055 Fax: 01502 500031 Contact: Adrian Melton	SIS	1990	1	Radar	1	6 - 9	No	No	Yes	No	3	30	Radar Decca Loran	VHF	Commercially	Various
Institute of Marine Studies University of Plymouth Drake Circus Plymouth PL4 8AA Tel: 01752 232409 Fax: 01752 232406 Contact: J.B. Hooper	Racal Decca MRNS 9000	1986	1	Radar	1	4	Night on one ship	Horiz: 135	Yes	No	4	48	Radar Decca Loran Omega DF Echo sounder	VHF Navtex	Commercially	On application
South Tyneside College St. Georges Ave. South Shields Tyne and Wear NE34 6ET Tel: 0191 4273591 Fax: 0191 4270267 Contact: David Pochin	Racal Decca	1981	1	Full mission ship's bridge	2	4	Night	Horiz: 90 Vert: 30	Yes	Yes	1	4	Radar Decca	VHF	Commercially	
	Solartron SY2086	1981	1	Radar	1	8	No	No	No	No	4	30	Radar Decca DF Echo Sounder	VHF	Commercially	

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Warsash Maritime Centre Southampton Institute Newtown Road Warsash Hants. SO31 9ZL Tel: 01489 576161 Fax: 01489 576908 Contact: John Habberley	Norcontrol Norview 2000	1993	1	Full mission ship's bridge	1	8	Day/ Night	Horiz: 210 Vert: 26	Yes	Yes	23	60	Decca Loran GPS MF 2 radars echo sounder	VHF	Commercially	£2,680 per week
	Racal Decca	1981	1	Full mission ship's bridge	1	8	Night	Horiz: 100	Yes	Yes	12	1	Decca 2 radars echo sounder	VHF	Commercially	£1,500 per week
	Racal MRNS 9000	1984	1	Radar	1	8	No	No	-	-	4	48	Decca Loran Satnav DF	VHF	Commercially	

ENGINE ROOM TRAINING FACILITIES

Country Location	Type	Date of Manu- facture	No.	Descrip- tion	No. of Lec- turers	No. of Students	Engine Room	Control Room	Remote Monitor	Auxi- liaries	Elect. Panel	Aux. Panel	Ballast Panel	Piping System	Boiler	Aux. Generator	Others	Cost to Students
POLAND																		
Maritime University 70-500 Szczecin Waly Chrobrego 1 Tel: 48 91344226 Fax: 48 91338123 Telex: 0422585 WSMPL Contact: Jan Glebicki	Diesel DPS-42			Sulzer engine	1	6	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	-	\$500
	DPS-100-MC-90C				1	6	Yes	-	Yes	Yes	Yes	-	-	-	-	-	-	\$300
Merchant Marine Academy Gdynia Ul. Morska 81/87 Tel: 21 7041 Fax: 20 6701 Telex: 054568 WSMPL Contact: DSC Leszek Morawski	1986	1		Sulzer	1	8	Yes	Yes	Yes	No	No	No	No	No	No	No	-	-
	1991-1993	1			1	8	-	-	-	-	-	-	-	-	-	-	-	-
UNITED KINGDOM																		
South Tyneside College St. Georges Ave South Shields Tyne and Wear NE34 6ET Tel: 0191 4273591 Fax: 0191 4270267 Contact: David Pochin	Slow speed Diesel	1984	1		1	6	No	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes		

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Warsash Maritime Centre Southampton Institute Newtown Road Warsash, Hants. SO3 9ZL Tel: 01489 576161 Fax: 01489 576908 Contact: Steven Stallwood	Diesel Slow Speed	1984	1	Haven Auto- mation	2	4	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes VDU	Yes		£1,500

OTHER SIMULATOR TRAINING FACILITIES

Country Location	Stability	Cargo Handling	Liquid Cargo	Ballast Contract	Fishing Simulator	VTs	Others
AUSTRALIA South Metropolitan College of TAFE 41 South Terrace Fremantle Western Australia 6160 Tel: +61 9 430 6123 Fax: +61 9 336 8241 Contact: Capt. R. Gray	Computer driven stability programs Use of ship model in tank	Use of ship models in tank	Use of ship models in tank	-	-	-	GMDSS (Live and simulated) DSC SATCOM MF/HF Radio
POLAND Maritime University 70-500 Szczecin Waly Chrobrego 1 Tel: 4891 344226 Fax: 4891 338123 Telex: 0422585 WSMPL Contact: Jan Glebicki			Crude oil tanker VLCC		Yes		GMDSS simulator remote cooling plant monitoring

LOCATION	TYPE	DATE OF MANUFACTURE	NO. OF LECTURERS	NO. OF STUDENTS	COST PER STUDENT
UNITED KINGDOM Aberdeen College Gallowgate Aberdeen AB9 1 DN Tel: 01224 640366 Fax: 01224 647178 Contact: Ian Giddings	Dynamic positioning (CEGELEC)	Mid 1980s	2	4	Various between £300 - £1,000
	Dynamic positioning (SIMRAD) (Integrated with Simrad AVS 7000 vessel simulator)	Early 1980s	2	4	Various between £300 - £1,000
	Ballast control (SIMTRAN)	Late 1980s	2	4	Various between £300 - £1,000
	Jack up (Stewart Technology)	Early 1990s	2	8	Various between £300 - £1,000
Glasgow College of Nautical Studies 21 Thistle Street Glasgow G5 9XB Tel: 0141 429 3201 Fax: 0141 429 1690 Contact: Malcolm Linklater Sir John Moores University Byrom Street Liverpool L3 3AF Tel: 0151 2312368 Contact: Mr. T. Ruxton Lowestoft College St. Peters Street Lowestoft Suffolk NR32 4DS Tel: 01502 525055 Fax: 01502 500031 Contact: Adrian Mellon	Liquid Cargo Handling Simulator (Crude carrier)	1976 (upgraded 1984 and 1994)	2	4	Various
	VTs Simulator Solartron SY 2086	1982	1	9	
	Emergency control for offshore installations	1994	2 - 3	6	Various £3,500 per course
	Dynamic Positioning (SIMRAD)	1986	1	6	£800 + VAT per week

LOCATION	TYPE	DATE OF MANUFACTURE	NO. OF LECTURERS	NO. OF STUDENTS	COST PER STUDENT
Warsash Maritime Centre Southampton Institute Newtown Road Warsash, Hants. SO31 9ZL Tel: 01489 576161 Fax: 01489 576908 Contact: Ray Gillett	Liquid Cargo Operations Simulator (LICOS)	1988	1 - 2	5	£1,175 incl. VAT per week
Warsash Maritime Centre Southampton Institute Newtown Road Warsash, Hants. SO31 9ZL Tel: 01703 871069 Contact: Nigel Hunt	Scaled manned models for shiphandling and manoeuvring training	1980 - 1992	3	6	£2,500 incl. VAT per week
Warsash Maritime Centre Southampton Institute Newtown Road Warsash, Hants. SO31 9ZL Tel: 01489 576161 Fax: 01489 576908 Contact: Terry Hughes	Vessel Traffic Services (VTS) Simulator	1993	1	5	

GENERAL

Country Location	Language(s)		Can simulator be used for			Is simulator open to students from other countries	Cost per student
	Training	Teaching aids and documents	Problem solving exercises	Emergency situation	Review of students performance		
AUSTRALIA South Metropolitan College of TAFE 41 South Terrace Fremantle Western Australia 6160 Tel: +61 9 430 6123 Fax: +61 9 336 8241 Contact: Capt. R. Gray	English	English	Yes	Yes	No	Yes	On request (variable subject to numbers)
POLAND Maritime University 70-500 Szczecin Waly Chrobrego 1 Tel: 4891 344226 Fax: 4891 338123 Telex: 0422585 WSMPL Contact: Jan Glebicki Merchant Marine Academy Gdynia Ul. Morska 81/87 Tel: 217041 Fax: 206759 Telex: 054568 WSM PL	Polish and English	English	Yes	Yes	Yes	Yes	\$400
	English	-	Yes	Yes	Yes	Yes	
UNITED KINGDOM Aberdeen College Gallowgate Aberdeen AB9 1DN Tel: 01224 640366 Fax: 01224 647178 Contact: Ian Giddings	English	English	Yes	Yes	Partly	Yes	Various

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Fleetwood Nautical Campus Broadwater Fleetwood Lancashire FY7 8JZ Tel: 01253 352352 Fax: 01253 773014 Telex: 677348 SURVIV G Contact: John F. Hayes	English	English	Yes	Yes	Yes	Yes	Various
Glasgow Nautical College 21 Thistle Street Glasgow G5 9XB Tel: 0141 429 3201 Fax: 0141 429 1690 Contact: Malcolm Linklater	English	English	Yes	Yes	Yes	Yes	On application
Sir John Moores University Byrom Street Liverpool L3 3AF Tel: 0151 2312368 Contact: Mr. T. Ruxton	English	English	Yes	Yes	Yes	Yes	Various
Lowestoft College St. Peters Street Lowestoft Suffolk NR32 4DS Tel: 01502 525055 Fax: 01502 500031 Contact: Adrian Mellon	English	English	Yes	Yes	Yes	Yes	Various

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South Tyneside College St. Georges Ave South Shields Tyne and Wear NE34 6ET Tel: 0191 4273591 Fax: 0191 4270267 Contact: David Pochin	English	English	Yes	Yes	Yes	Yes	
Warsash Maritime Centre Southampton Institute Newtown Road Warsash, Hants. SO3 9ZL Tel: 01489 576161 Fax: 01489 576908 Contact: George Angas	English	English	Yes	Yes	Yes	Yes	Various